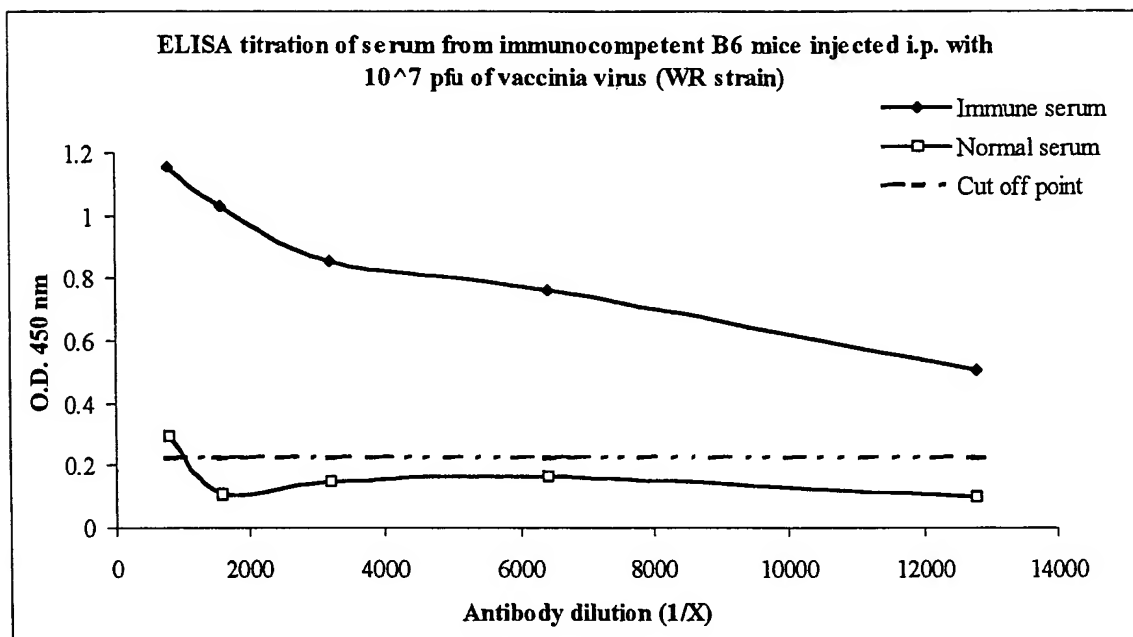


Fig 1



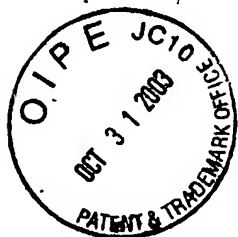
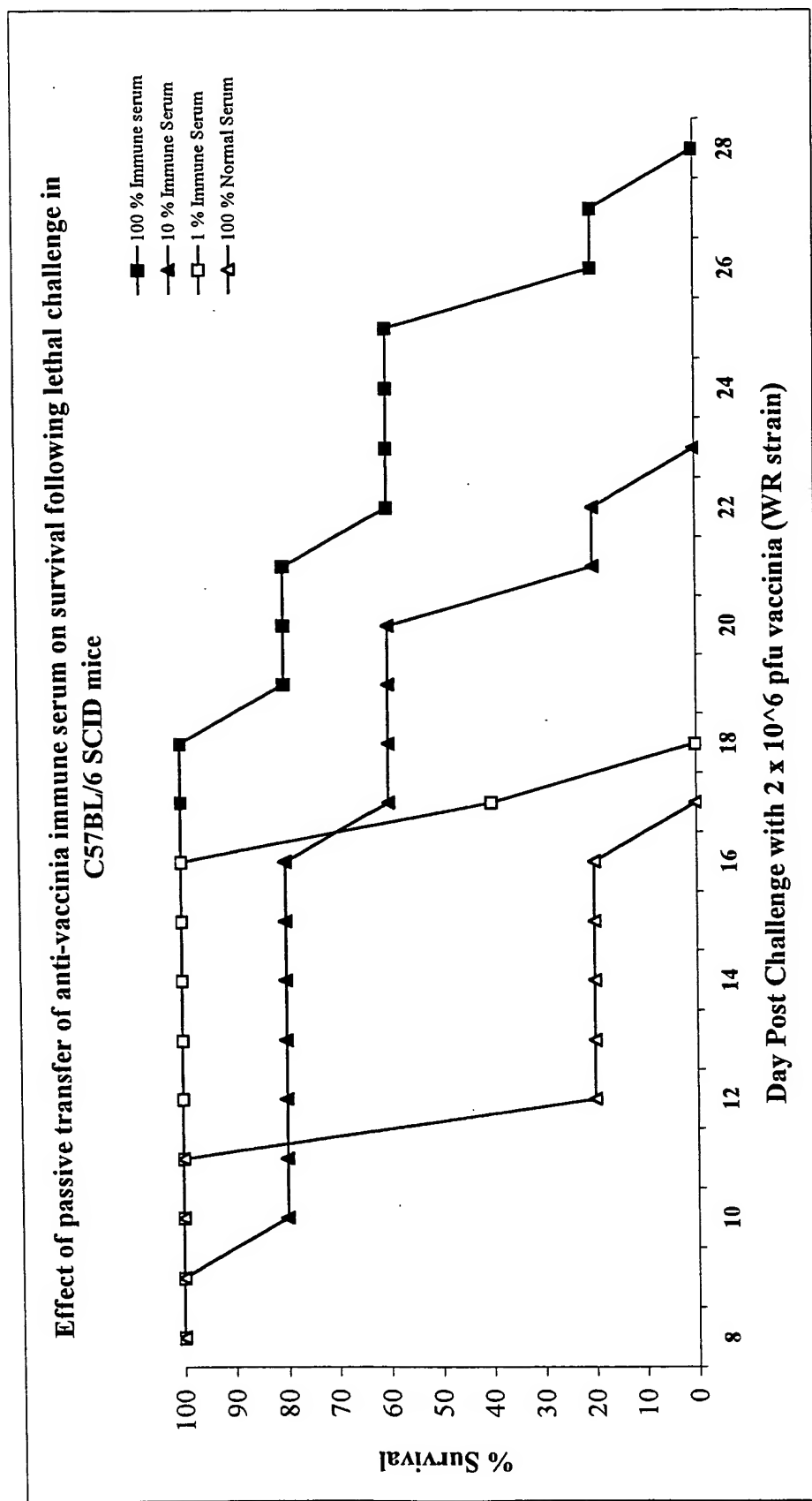
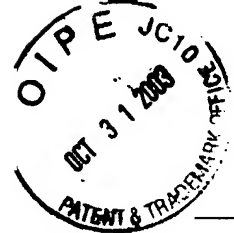


Fig. 2





L1R-M1Ralign

		Section 1						
		(1)	1	10	20	30	40	54
L1R-P07612	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASAQTKCDIEIGNFYIRQNHGCNLTVK						
L1R-AAA48076	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASAQTKCDIEIGNFYIRQNHGCNLTVK						
M1R-AAA60821	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASAQTKCDIEIGNFYIRQNHGCNLTVK						
M1R-P33040	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASAQTKCDIEIGNFYIRQNHGCNLTVK						
Consensus	(1)	MGAAASIQTTVNTLSEIRISSKLEQEANASAQTKCDIEIGNFYIRQNHGCNLTVK						
		Section 2						
		(55)	55	60	70	80	90	108
L1R-P07612	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF						
L1R-AAA48076	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF						
M1R-AAA60821	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF						
M1R-P33040	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF						
Consensus	(55)	NMCSADADAQLDAVLSAATETYSGLTPEQKAYVPAMFTAALNIQTSVNTVVRDF						
		Section 3						
		(109)	109	120	130	140	150	162
L1R-P07612	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA						
L1R-AAA48076	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA						
M1R-AAA60821	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA						
M1R-P33040	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA						
Consensus	(109)	ENYVKQTCNSSAVVDNKLKIQNVIIIDECYGAPGSPTNLEFINTGSSKGNCAIKA						
		Section 4						
		(163)	163	170	180	190	200	216
L1R-P07612	(163)	LMQLTTKATTQIAPRQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI						
L1R-AAA48076	(163)	LMQLTTKATTQIAPRQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI						
M1R-AAA60821	(163)	LMQLTTKATTQIAPRQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI						
M1R-P33040	(163)	LMQLTTKATTQIAPRQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI						
Consensus	(163)	LMQLTTKATTQIAPRQVAGTGVQFYMIVIGVIIAALFMYAKRMLFTSTNDKI						
		Section 5						
		(217)	217	230	240	250		
L1R-P07612	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTD MQN						
L1R-AAA48076	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTD MQN						
M1R-AAA60821	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTD IQN						
M1R-P33040	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTD IQN						
Consensus	(217)	KLILANKENVHWTTYMDTFFRTSPMVIATTD MQN						

FIGURE 3.

								Section 1
	(1)	1	10	20	30	40	54	
A27L-P11258	(1)	MDGTLFPGDDDLAIPATEFFSTKAAKKPDRKREQIVKADEDDNEETLKQRLTNL						
A27L-P20535	(1)	MDGTLFPGDDDLAIPATEFFSTKADKKPEAKREAIVKADEDDNEETLKQRLTNL						
A30L-P33816	(1)	MDGTLFPGDDDLAIPATEFFSTKAAKKPEAKREAIVKADGDNNEETLKQRLTNL						
A30L-AAA60882	(1)	MDGTLFPGDDDLAIPATEFFSTKAAKKPEAKREAIVKADGDDNEETLKQRLTNL						
Consensus	(1)	MDGTLFPGDDDLAIPATEFFSTKAAKKPEAKREAIVKADGDDNEETLKQRLTNL						
								Section 2
	(55)	55	60	70	80	90	108	
A27L-P11258	(55)	EKKITNVTTKFEQIEKCKRNDEVLFRLNHAETLRAAMISLAKKIDVQTGRRP						
A27L-P20535	(55)	EKKITNVTTKFEQIEKCKRNDEVLFRLNHAETLRAAMISLAKKIDVQTGRRP						
A30L-P33816	(55)	EKKITNVTTKFEQIEKCKRNDDVLFRLNHAETLRAAMISLAKKIDVQTGRRP						
A30L-AAA60882	(55)	EKKITNVTTKFEQIEKCKRNDDVLFRLNHAETLRAAMISLAKKIDVQTGRRP						
Consensus	(55)	EKKITNVTTKFEQIEKCKRNDDVLFRLNHAETLRAAMISLAKKIDVQTGRRP						
								Section 3
	(109)	<u>109</u>						
A27L-P11258	(109)	YE						
A27L-P20535	(109)	YE						
A30L-P33816	(109)	YE						
A30L-AAA60882	(109)	YE						
Consensus	(109)	YE						

FIGURE 4



A33R-A36Ralign

Section 1									
	(1)	1	10	20	30	40	54		
A33R-H42520	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIIGLCIRISMVISLLSMITMSAF							
A33R-AAA48160	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIIGLCIRISMVISLLSMITMSAF							
A36R-P33850	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIIGLCIRISMVISLLSMITMSAF							
A36R-AAA60888	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIIGLCIRISMVISLLSMITMSAF							
Consensus	(1)	MMTPENDEEQTSVFSATVYGDKIQGKNKRKRVIIGLCIRISMVISLLSMITMSAF							
Section 2									
	(55)	55	60	70	80	90	108		
A33R-H42520	(55)	LIVRLNQCMSANEAAITDAAVAVAAASSTHRKVASSTTQYDHKESCNGLYYQGS							
A33R-AAA48160	(55)	LIVRLNQCMSANEAAITDAAVAVAAASSTHRKVASSTTQYDHKESCNGLYYQGS							
A36R-P33850	(55)	LIVRLNQCMSANEAAITD-ATAVAAALSTHRKVASSTTQYKHQESCNGLYYQGS							
A36R-AAA60888	(55)	LIVRLNQCMSANEAAITD-ATAVAAALSTHRKVASSTTQYKHQESCNGLYYQGS							
Consensus	(55)	LIVRLNQCMSANEAAITDAAVAVAAASSTHRKVASSTTQYKHQESCNGLYYQGS							
Section 3									
	(109)	109	120	130	140	150	162		
A33R-H42520	(109)	CYILHSDYQLFSDAKANCTAESSTLPNKSDVLITWLIDYVEDTWGSDGNPITKT							
A33R-AAA48160	(109)	CYILHSDYQLFSDAKANCTAESSTLPNKSDVLITWLIDYVEDTWGSDGNPITKT							
A36R-P33850	(108)	CYIFHSDYQLFSDAKANCATESSTLPNKSDVLTTWLIDYVEDTWGSDGNPITKT							
A36R-AAA60888	(108)	CYIFHSDYQLFSDAKANCATESSTLPNKSDVLTTWLIDYVEDTWGSDGNPITKT							
Consensus	(109)	CYILHSDYQLFSDAKANCTESSTLPNKSDVLTTWLIDYVEDTWGSDGNPITKT							
Section 4									
	(163)	163	170	185					
A33R-H42520	(163)	TSDYQSDSDVSQEVRYFCVKTMN							
A33R-AAA48160	(163)	TSDYQSDSDVSQEVRYFCVKTMN							
A36R-P33850	(162)	TTDYQSDSDVSQEVRYFCVKTMN							
A36R-AAA60888	(162)	TTDYQSDSDVSQEVRYFCVKTMN							
Consensus	(163)	TSDYQSDSDVSQEVRYFCVKTMN							

FIGURE 5



								Section 1
	(1)	1	10	20	30	40	55	
D8L-P04195	(1)	MPQQLSPINIETKKAISNARLKPLDIHYNESKPTTIQNTGKLV	RINFKGGYISGG					
D8L-AAA48107	(1)	MPQQLSPINIETKKAISNARLKPLDIHYNESKPTTIQNTGKLV	RINFKGGYISGG					
F8L-P33065	(1)	MSQQLSPINIETKKAISNARLKPLNIHYNESKPTTIQNTGKLV	RINFKGGYLSGG					
F8L-AAA60846	(1)	MSQQLSPINIETKKAISNARLKPLNIHYNESKPTTIQNTGKLV	RINFKGGYLSGG					
Consensus	(1)	MSQQLSPINIETKKAISNARLKPLNIHYNESKPTTIQNTGKLV	RINFKGGYISGG					
								Section 2
	(56)	56	70	80	90	100	110	
D8L-P04195	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH						
D8L-AAA48107	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH						
F8L-P33065	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH						
F8L-AAA60846	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH						
Consensus	(56)	FLPNEYVLSSLHIYWGKEDDYGSNHLIDVYKYSGEINLVHWNKKKYSSYEEAKKH						
								Section 3
	(111)	111	120	130	140	150	165	
D8L-P04195	(111)	DDGLIIISIFLQVLDHKNVYFQKIVNQLDSIRSANTSAPFDSVFYLDNLLPSKLD						
D8L-AAA48107	(111)	DDGLIIISIFLQVSDHKNVYFQKIVNQLDSIRSANTSAPFDSVFYLDNLLPSTLD						
F8L-P33065	(111)	DDGLIIISIFLQVSDHKNVYFQKIVNQLDSIRTANTSAPFDSVFYLDNLLPSKLD						
F8L-AAA60846	(111)	DDGLIIISIFLQVSDHKNVYFQKIVNQLDSIRTANTSAPFDSVFYLDNLLPSKLD						
Consensus	(111)	DDGLIIISIFLQVSDHKNVYFQKIVNQLDSIRSANTSAPFDSVFYLDNLLPSKLD						
								Section 4
	(166)	166	180	190	200	210	220	
D8L-P04195	(166)	YFTYLGT TINHSADAVWIIFPTPINIHSDQLSKFRTLSSSNHDGKPHYITENYR						
D8L-AAA48107	(166)	YFTYLGT TIKHSADAVWIIFPTPINIHSDQLSKFRTLSSSNHDGKPHYITENYR						
F8L-P33065	(166)	YFKYLGT TINHSADAVWIIFPTPINIHSDQLSKFRTLSSSNHEGKPHYITENYR						
F8L-AAA60846	(166)	YFKYLGT TINHSADAVWIIFPTPINIHSDQLSKFRTLSSSNHEGKPHYITENYR						
Consensus	(166)	YFTYLGT TINHSADAVWIIFPTPINIHSDQLSKFRTLSSSNHDGKPHYITENYR						
								Section 5
	(221)	221	230	240	250	260	275	
D8L-P04195	(221)	NPYKLNDDTQVYYSGEIIIRAATTSPARENYFMRWLSDLRETCFSYYQKYIEENKT						
D8L-AAA48107	(221)	NPYKLNDDTQVYYSGEIIIRAATTSPARENYFMRWLSDLRETCFSYYQKYIEGNT						
F8L-P33065	(221)	NPYKLNDDTEVYYSGEIIIRAATTSPARENYFMRWLSDLRETCFSYYQKYIEGNT						
F8L-AAA60846	(221)	NPYKLNDDTEVYYSGEIIIRAATTSPARENYFMRWLSDLRETCFSYYQKYIEGNT						
Consensus	(221)	NPYKLNDDTQVYYSGEIIIRAATTSPARENYFMRWLSDLRETCFSYYQKYIEGNT						
								Section 6
	(276)	276	290	304				
D8L-P04195	(276)	FAIIAIVFVFILTALFFMSRRYSREKQN						
D8L-AAA48107	(276)	FAIIAIVFVFILTALFLMSRRYSREKQN						
F8L-P33065	(276)	FAIIAIVFVYILTALFLMSRRYSREKQN						
F8L-AAA60846	(276)	FAIIAIVFVYILTALFLMSRRYSREKQN						
Consensus	(276)	FAIIAIVFVFILTALFLMSRRYSREKQN						

FIGURE 6



Section 1

	(1)	1	10	20	30	40	54
B5R-JQ1799	(1)	MKT	ISVVTLLCVLP	AVVYSTCTVPTM	NNAKLTSTETS	FNNDKQKV	TFTCDQGYHS
B5R-D42526	(1)	MKT	ISVVTLLCVLP	AVVYSTCTVPTM	NNAKLTSTETS	FNNDKQKV	TFTCDQGYHS
B7R-NP_042219	(1)	MKT	ISVVTLLCVLP	AVVYSTCTVPTM	NNAKLTSTETS	FNNDKQKV	TFTCDQGYHS
B7R-CAA49116	(1)	MKT	ISVVTLLCVLP	AVVYSTCTVPTM	NNAKLTSTETS	FNNDKQKV	TFTCDQGYHS
B7R-G36855	(1)	MKT	ISVVTLLCVLP	AVVYSTCTVPTM	NNAKLTSTETS	FNNDKQKV	TFTCDQGYHS
B7R-2015436GX	(1)	MKT	ISVVTLLCVLP	AVVYSTCTVPTM	NNAKLTSTETS	FNNDKQKV	TFTCDQGYHS
Consensus	(1)	MKT	ISVVTLLCVLP	AVVYSTCTVPTM	NNAKLTSTETS	FNNDKQKV	TFTCDQGYHS

Section 2

	(55)	55	60	70	80	90	108
B5R-JQ1799	(55)	SDPNAVCETDKW	KYENPCKKMCTV	SDYISELYNKPLY	EVNSTMTLSCN	GETKCYF	
B5R-D42526	(55)	SDPNAVCETDKW	KYENPCKKMCTV	SDYISELYNKPLY	EVNSTMTLSCN	GETKCYF	
B7R-NP_042219	(55)	LDPNAVCETDKW	KYENPCKKMCTV	SDYVSELYNKPLY	EVNAITLICKDE	TCKCYF	
B7R-CAA49116	(55)	LDPNAVCETDKW	KYENPCKKMCTV	SDYVSELYNKPLY	EVNAITLICKDE	TCKCYF	
B7R-G36855	(55)	LDPNAVCETDKW	KYENPCKKMCTV	SDYVSELYNKPLY	EVNAITLICKDE	TCKCYF	
B7R-2015436GX	(55)	LDPNAVCETDKW	KYENPCKKMCTV	SDYVSELYNKPLY	EVNAITLICKDE	TCKCYF	
Consensus	(55)	LDPNAVCETDKW	KYENPCKKMCTV	SDYVSELYNKPLY	EVNAITLICKDE	TCKCYF	

Section 3

	(109)	109	120	130	140	150	162
B5R-JQ1799	(109)	RCEEKNGNTSWND	TVTCPNAECQPLQ	LEHGSQPVKEKY	SFGEYMTINC	DVGYE	
B5R-D42526	(109)	RCEEKNGNTSWND	TVTCPNAECQPLQ	LEHGSQPVKEKY	SFGEYMTINC	DVGYE	
B7R-NP_042219	(109)	RCEEKNGNTSWND	TVTCPNAECQSLQ	LDHGSCQPVKEKY	SFGEHITINC	DVGYE	
B7R-CAA49116	(109)	RCEEKNGNTSWND	TVTCPNAECQSLQ	LDHGSCQPVKEKY	SFGEHITINC	DVGYE	
B7R-G36855	(109)	RCEEKNGNTSWND	TVTCPNAECQSLQ	LDHGSCQPVKEKY	SFGEHITINC	DVGYE	
B7R-2015436GX	(109)	RCEEKNGNTSWND	TVTCPNAECQSLQ	LDHGSCQPVKEKY	SFGEHITINC	DVGYE	
Consensus	(109)	RCEEKNGNTSWND	TVTCPNAECQSLQ	LDHGSCQPVKEKY	SFGEHITINC	DVGYE	

Section 4

	(163)	163	170	180	190	200	216
B5R-JQ1799	(163)	VIGASYISCTANS	WNVIPSCQQKCD	IPSLNGLISGST	FSIGGVIHL	SCKSGFI	
B5R-D42526	(163)	VIGASYISCTANS	WNVIPSCQQKCD	IPSLNGLISGST	FSIGGVIHL	SCKSGFI	
B7R-NP_042219	(163)	VIGASYITCTANS	WNVIPSCQQKCD	IPSLNGLISGST	FSIGGVIHL	SCKSGFI	
B7R-CAA49116	(163)	VIGASYITCTANS	WNVIPSCQQKCD	IPSLNGLISGST	FSIGGVIHL	SCKSGFI	
B7R-G36855	(163)	VIGASYITCTANS	WNVIPSCQQKCD	IPSLNGLISGST	FSIGGVIHL	SCKSGFI	
B7R-2015436GX	(163)	VIGASYITCTANS	WNVIPSCQQKCD	IPSLNGLISGST	FSIGGVIHL	SCKSGFI	
Consensus	(163)	VIGASYITCTANS	WNVIPSCQQKCD	IPSLNGLISGST	FSIGGVIHL	SCKSGFI	

Section 5

	(217)	217	230	240	250	260	270
B5R-JQ1799	(217)	LTGSPSSTCIDG	KWNPVLPICVRT	NEEFDPVDDGP	DDDETDL	SKLSKDVVQ	YEQE
B5R-D42526	(217)	LTGSPSSTCIDG	KWNPVLPICVRT	NEEFDPVDDGP	DDDETDL	SKLSKDVVQ	YEQE
B7R-NP_042219	(217)	LTGSPSSTCIDG	KWNPVLPICIRS	NEEFDPVEDGP	DDDETDL	SKLSKDVVQ	YEQE
B7R-CAA49116	(217)	LTGSPSSTCIDG	KWNPVLPICIRS	NEEFDPVEDGP	DDDETDL	SKLSKDVVQ	YEQE
B7R-G36855	(217)	LTGSPSSTCIDG	KWNPVLPICIRS	NEEFDPVEDGP	DDDETDL	SKLSKDVVQ	YEQE
B7R-2015436GX	(217)	LTGSPSSTCIDG	KWNPVLPICIRS	NEEFDPVEDGP	DDDETDL	SKLSKDVVQ	YEQE
Consensus	(217)	LTGSPSSTCIDG	KWNPVLPICIRS	NEEFDPVEDGP	DDDETDL	SKLSKDVVQ	YEQE

FIGURE 7



	(271) 271	280	290	300	317
B5R-JQ1799 (271)	IESLEATYHII	IIVALTIMGVIFLISVIVLVCSCDKNNDQYKFHKLLP			
B5R-D42526 (271)	IESLEATYHII	IIVALTIMGVIFLISVIVLVCSCDKNNDQYKFHKLLP			
B7R-NP_042219 (271)	IESLEATYHII	IIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL			
B7R-CAA49116 (271)	IESLEATYHII	IIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL			
B7R-G36855 (271)	IESLEATYHII	IIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL			
B7R-2015436GX (271)	IESLEATYHII	IIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL			
Consensus (271)	IESLEATYHII	IIVALTIMGVIFLISVIVLVCSCNKNNDQYKFHKLLL			

FIGURE 7 CONTINUED



H5R-I5Ralign

							Section 1
	(1)	1	10	20	30	40	55
H5R-P07242	(1)	MAWSITNKADTSSFTKMAEIRAHLKNSAENKDKNEDIFPEDV IIPSTKPKTKRAT					
H5R-E42514	(1)	MAWSITNKADTSSFTKMAEIRAHLKNSAENKDKNEDIFPEDV IIPSTKPKTKRAT					
I5R-P33062	(1)	MAWSITNKADTSSFTKMAEIRAHLRNSAENKDKNDDIFPEDV IIPSTKPKTKRAT					
I5R-AAA60836	(1)	MAWSITNKADTSSFTKMAEIRAHLRNSAENKDKNDDIFPEDV IIPSTKPKTKRAT					
Consensus	(1)	MAWSITNKADTSSFTKMAEIRAHLKNSAENKDKNDDIFPEDV IIPSTKPKTKRAT					
							Section 2
	(56)	56	70	80	90	100	110
H5R-P07242	(56)	TPRKPAATKRSTKKEE-----VEEEV VIEEYHQTEKNSP-----SPGVSDIVESV					
H5R-E42514	(56)	TPRKPAATKRSTKKEE-----VEEEV VIEEYHQTEKNSP-----SPGVGDIVESV					
I5R-P33062	(56)	TPRKPAATKRSTKKDKKEKEEVEEEV VIEEYHQTEENSPPSSSPGVGNIVESV					
I5R-AAA60836	(56)	TPRKPAATKRSTKKDKKEKEEV-EEEV VIEEYHQTEENSPPSSSPGVGDIVESV					
Consensus	(56)	TPRKPAATKRSTKKDKKEKEEVVEEEV VIEEYHQTEKNSPPSSSPGVGDIVESV					
							Section 3
	(111)	111	120	130	140	150	165
H5R-P07242	(102)	AAVELDDSDGDD-----EPMVQVEAGKVNHSARSDLSDLKVATDNIVKDLK					
H5R-E42514	(102)	AAVELDDSDGDD-----EPMVQVEAGKVNHSARSDLSDLKVATDNIVKDLK					
I5R-P33062	(111)	TAVELDDSGDDDDNDNDNDNDNEPMVQVEAGKVNHSARSDLSDLKVATDNIVKDLK					
I5R-AAA60836	(110)	TAVELDDSGDDDDNDNDNDNDNEPMVQVEAGKVNHSARSDLSDLKVATDNIVKDLK					
Consensus	(111)	TAVELDDSGDDDDNDNDNDNDNEPMVQVEAGKVNHSARSDLSDLKVATDNIVKDLK					
							Section 4
	(166)	166	180	190	200	210	220
H5R-P07242	(148)	KIITRISAVSTVLEDVQAAGISRQFTSMTKAITTLSDLVTEGKSKVVRKKVKTK					
H5R-E42514	(148)	KIITRISAVSTVLEDVQAAGISRQFTSMTKAITTLSDLVTEGKSKVVRKKVKTK					
I5R-P33062	(166)	KIITRISAVSTVLEDVQAAGISRQFTSMTKSITTLSDLVTEGKSKVVRKKVKTK					
I5R-AAA60836	(165)	KIITRISAVSTVLEDVQAAGISRQFTSMTKSITTLSDLVTEGKSKVVRKKVKTK					
Consensus	(166)	KIITRISAVSTVLEDVQAAGISRQFTSMTKAITTLSDLVTEGKSKVVRKKVKTK					
							Section 5
	(221)	221					
H5R-P07242	(203)	K					
H5R-E42514	(203)	K					
I5R-P33062	(221)	K					
I5R-AAA60836	(220)	K					
Consensus	(221)	K					

FIGURE 8





Figure 9

